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T A	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/500,811	07/07/2004	George A. Doherty	21020P	8668
		7590 06/06/2007		EXAMINER:	
	MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907			ANDERSON, REBECCA L	
				ART UNIT	PAPER NUMBER
				1626	
				MAIL DATE	DELIVERY MODE
			·	06/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/500,811	DOHERTY ET AL.				
	Office Action Summary	Examiner	Art Unit				
	·	Rebecca L. Anderson	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 14 M	<u>arch 2007</u> .					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)[_]	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-22,34 and 35 is/are pending in the application. 4a) Of the above claim(s) 6,8-10,13-17,22 and 34 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 35 is/are rejected. 7) Claim(s) 1-5,7,11,12,18-21 and 35 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	ion Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen							
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 4/2/07, 7/7/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

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DETAILED ACTION

Claims 1-22, 34 and 35 are currently pending in the instant application. Claims 1-5, 7, 11, 12, 18-21 and 35 are objected to as containing non-elected subject matter.

Claim 35 is rejected. Claims 6, 8-10, 13-17, 22 and 34 are withdrawn from consideration as being for non-elected subject matter.

Election/Restrictions

Applicant's election with traverse of Group V in the reply filed on 14 March 2007 is acknowledged. The traversal is on the ground(s) that the claims satisfy the unity of invention requirement because the groups are properly linked to form a single general inventive concept. Applicant argues that the special technical feature is the core structure embodied in Formula I and all compounds share this significant common chemical structure which occupies a large portion of their structures and the compounds also possess the same utility as edg receptor agonists. This argument is not persuasive as the compounds claimed only share the common C-N-C which does not occupy a large portion of their structure. Applicant argues that the technical feature defined by the examiner of C-N-C is not the technical feature and that alternatives shall be considered as part of the technical feature if all alternatives are of a similar nature. Applicant argues that a Markush grouping of chemical compounds shall be regarded as being of similar nature when all alternatives have a common property and there is a significant structural element shared by all the alternatives. This is not found persuasive because the term "significant structural element is shared by all of the alternatives" refers to cases where the compounds share a common chemical structure which

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occupies a large portion of their structure or in the case of compounds which have in common only a small portion of their structures, the commonly shared structure constitutes a structurally distinctive portion in view of existing prior art. The compounds claimed only share a C-N-C which does not occupy a large portion of their structure. Since the compounds have only a small portion of their structure in common, this small portion which is commonly shared was shown to not be distinct in view of the existing prior art. Applicant argues that the examiner may not exclude groups such as Ar or A which vary on the compound from the technical feature. This is not found persuasive as can be seen in the PCT international search and preliminary examination guidelines, variables have been left out of the common structure, see for example R1 of examples 19 and 20. Additionally, examples 19 and 20 provide a compound wherein a large portion of the structure is in common, which differs from the instantly claimed invention which has 9 variables, i.e. A, R1, R2, n, R3, R4, Ar, B and C compared to the C-N-C in common with all the claims. The instantly claimed compound has variables Ar-B-C has a large portion of the structure claimed and therefore, the compounds share only a small portion of their structures as the compound claimed also includes variables A, r1, R2, R3 and R4. Therefore, not only are the alternatives of the Markush grouping differently classified, but the technical feature of C-N-C which occupies only a small portion of the structure has been compared to the prior art and found to not be distinct. Therefore the claims are considered to lack unity of invention as the claims are not drawn to categories of invention that are to be considered to have unity of invention as this is without regard to whether the inventions are claimed in separate claims or as

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alternatives within a single claim and the technical feature of C-N-C is not distinct over the prior art.

The requirement is still deemed proper and is therefore made FINAL.

Claim Objections

Claims 1-5, 7, 11, 12, 18-21 and 35 are objected to as containing non-elected subject matter. Claims 1-5, 7, 11, 12, 18-21 and 35 presented drawn solely to the elected invention of Group V would overcome this objection.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 35 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 23 and 24 of copending Application No. 10/501,176 Although the conflicting claims are not identical, they are not patentably distinct from each other because conflicting claims 23 and 24 claim a composition comprising a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating an immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1P1/Edg3 receptor of at least 20 or 100 fold as measured by the ration of EC50 for the S1P1/Edg1 receptor to the EC50 for the S1P3/Edg3 receptor as evaluated in the 35-GTPgS binding assay and wherein said compound possesses an EC50 for binding to the S1P1/Edg1 receptor of 100nM or 10 nM or less as evaluated by the 35-GTPgS binding assay. Page 17 or the specification of 10/501,176 provides a table of exemplary compounds which have this activity and pages 26 and 27 disclose specific compounds, 141-149 which are species

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within applicants' instantly claimed invention which have this activity and are exemplified as preferred embodiments in the 10/501,176 application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rebecca L. Anderson whose telephone number is (571) 272-0696. Mrs. Anderson can normally be reached Monday through Friday from 6:00am until 2:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Joseph K. McKane, can be reached at (571) 272-0699.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Rebecca Anderson/ Primary Examiner, AU 1626

Rebecca Anderson
Primary Examiner
Art Unit 1626, Group 1620
Technology Center 1600

31 May 2007